

## RAW SEQUENCE LISTING

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Application Serial Number: 10/549,289  
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IFWP

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/549,289**

DATE: 09/21/2006  
TIME: 11:35:37

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3 <110> APPLICANT: TAHARA, TOMOYUKI  
4 ABIKO, YOSHIMITSU  
5 YOSHIE, HIROMASA  
6 KOBAYASHI, TETSUO  
7 UMEMOTO, TOSHIO  
8 HAMADA, NOBUSHIRO  
10 <120> TITLE OF INVENTION: A THERAPEUTIC AGENT FOR PERIODONTAL DISEASE  
12 <130> FILE REFERENCE: 81356-248  
14 <140> CURRENT APPLICATION NUMBER: 10/549,289  
15 <141> CURRENT FILING DATE: 2005-09-16 ..  
17 <150> PRIOR APPLICATION NUMBER: PCT/JP04/003569  
18 <151> PRIOR FILING DATE: 2004-03-17  
20 <150> PRIOR APPLICATION NUMBER: JP 2003-072714  
21 <151> PRIOR FILING DATE: 2003-03-17  
23 <160> NUMBER OF SEQ ID NOS: 2  
25 <170> SOFTWARE: PatentIn Ver. 3.3  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 2008  
29 <212> TYPE: DNA  
30 <213> ORGANISM: Porphyromonas gingivalis  
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35 atctctccgc aggaggaggt ctatgccgtt caggctgtgg gcgagcacac gaaggaggc 180  
36 gatctctgct tcaacgtctg caagagcaaa aagcttacca atatgcgtgc ttccggtagc 240  
37 gatgataagg tgtcactggc tccaccgggt gtattcagcc tcolaagatgc tttggagtat 300  
38 atcaagtatg acgagtatgt ggaggtgacg ccgaaaagca tgcgcattgcg taaaattatc 360  
39 ctcgacgaga cagaacgtaa acgacaagga cgataacaga ggc当地 agtattt 420  
40 catctatcta acgtattttg gtccccgaaa tacggaaaat caaacaat gtttactaa 480  
41 caaaaaagat aaacgaacat gaaaagatta ttactctctg ctgctatcct aagtatgtat 540  
42 gcttgttta atgtcaatgc acaagagttt aaaaacctctg ctgacatgaa aggttctttt 600  
43 aagaagaatg tggatttgg ggtattttact gccgaatggg gcggttactg tccaggtgg 660  
44 aaagagcgca ttgcaaaagc aattgaaatg ttggatgtatg aatataagga gcgtgttttt 720  
45 cagacatttg ttcatatata tgatggatc tcaaaaaat ggctcggtg tggccaaactt 780  
46 ttcattgcat tggatcaac attggcatt ccgggttttc cgacttttc agtttgcgt 840  
47 atggagaaaa aaggtgaaaa tctttcaata ggtgctccaa tagcaattaa aaataagatt 900  
48 atgaaagggtt ttggtgatgg tacagccccct gcagaggtaa accttaattt gaccgg 960  
49 gcaacaccgg aagatgtatg tacagctaca ttactggta aagtgcgtgc agacccata 1020  
50 gggaaacccctt ttatgttgc tgcatatgtt tgaaaaaaca atatgaagcc tattatccg 1080  
51 caaaatggag ctggggatgg atatctccac caacatactg tggatgtatg tctctccaca 1140  
52 gatgaaaaag gagacgctttt aaatattgca gccgatggaa gtttaccat caagaaagaa 1200  
53 tttaaatgg atggcttga aaaaaagat acagatgttc ttgctttcgat acaccatcca 1260  
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55 gggcctacag ctacagaaca aattgttgct accccctctg tcaaagcata tgttcagaat 1380  
 56 ggc当地atttgg tttagagga agagtattcc aagatggaa tattcaatgc aactggtcaa 1440  
 57 cttgtcaaaa atgaatccct tgc当地ccggt gtctatgttgc tccgtataac ggcaaacgg 1500  
 58 gtaatgcatt tc当地ttaaagt cttagttccct tgatttattt agctaagatt taaacgaaaa 1560  
 59 ctgc当地ccctc ttaatgttcc ataagaaggc gc当地tccctt ttttcctca ttccattctc 1620  
 60 cgagggtggc tc当地aggggc ctgc当地gtca tcttccaaac gaggaatatc agctcccctc 1680  
 61 acccaacacgg atgtccacaa atccatgttca atagcctatt tgagacctt gaaaaagag 1740  
 62 aaggtttctt atatcttata tctataaagg cactaaaaat cagtcgattt acaataaaaat 1800  
 63 ctccaagaaa ataccatgcg acagactcac tatatacatg cggtcaatgg tctgatatat 1860  
 64 cgaggctgtt gtggatggag gatagtttgc acctgaaaca aacggttccata 1920  
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 66 actcaatgcc tacacaatg gcgaaattc 2008  
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 70 <211> LENGTH: 344  
 71 <212> TYPE: PRT  
 72 <213> ORGANISM: Porphyromonas gingivalis  
 74 <400> SEQUENCE: 2  
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 78 Phe Asn Val Asn Ala Gln Glu Leu Lys Thr Ser Ala Asp Met Lys Gly  
 79 . . . . . 20 . . . . . 25 . . . . . 30 . .  
 81 Ser Phe Lys Lys Asn Val Val Leu Glu Val Phe Thr Ala Glu Trp Cys  
 82 . . . . . 35 . . . . . 40 . . . . . 45 . .  
 84 Gly Tyr Cys Pro Gly Gly Lys Glu Arg Ile Ala Lys Ala Ile Glu Met  
 85 . . . . . 50 . . . . . 55 . . . . . 60 . .  
 87 Leu Asp Asp Glu Tyr Lys Glu Arg Val Phe Gln Thr Phe Val His Tyr  
 88 . . . . . 65 . . . . . 70 . . . . . 75 . . . . . 80 . .  
 90 Asn Asp Gly Ile Ser Lys Lys Trp Pro Arg Val Gly Gln Leu Phe Ile  
 91 . . . . . 85 . . . . . 90 . . . . . 95 . .  
 93 Ala Leu Asp Gln Thr Leu Gly Ile Pro Gly Phe Pro Thr Phe Ser Val  
 94 . . . . . 100 . . . . . 105 . . . . . 110 . .  
 96 Cys Arg Met Glu Lys Lys Gly Glu Asn Leu Ser Ile Gly Ala Pro Ile  
 97 . . . . . 115 . . . . . 120 . . . . . 125 . .  
 99 Ala Ile Lys Asn Lys Ile Met Lys Gly Phe Gly Asp Gly Thr Ala Pro  
 100 . . . . . 130 . . . . . 135 . . . . . 140 . .  
 102 Ala Glu Val Asn Leu Lys Leu Thr Lys Gly Ala Thr Pro Glu Asp Val  
 103 . . . . . 145 . . . . . 150 . . . . . 155 . . . . . 160 . .  
 105 Cys Thr Ala Thr Phe Thr Gly Lys Val Asp Ala Asp Leu Ile Gly Lys  
 106 . . . . . 165 . . . . . 170 . . . . . 175 . .  
 108 Pro Leu Met Leu Thr Ala Tyr Val Leu Lys Asn Asn Met Lys Pro Ile  
 109 . . . . . 180 . . . . . 185 . . . . . 190 . .  
 111 Asn Pro Gln Asn Gly Ala Gly Asp Gly Tyr Leu His Gln His Thr Val  
 112 . . . . . 195 . . . . . 200 . . . . . 205 . .  
 114 Leu Met Ile Leu Ser Thr Asp Val Lys Gly Asp Ala Leu Asn Ile Ala  
 115 . . . . . 210 . . . . . 215 . . . . . 220 . .  
 117 Ala Asp Gly Ser Phe Thr Ile Lys Lys Glu Phe Lys Leu Asp Gly Phe  
 118 . . . . . 225 . . . . . 230 . . . . . 235 . . . . . 240 . .  
 120 Glu Ile Lys Asp Thr Asp Val Leu Ala Phe Val His His Pro Met Ser  
 121 . . . . . 245 . . . . . 250 . . . . . 255 . .

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123 Asn Ala Glu Asn His Ser Ile Ile Asn Ala Gly Gln Glu Ser Leu Asp  
124 260 265 270  
126 Lys Ala Glu Pro Thr Ala Thr Glu Gln Ile Val Ala Thr Pro Ser Val  
127 275 280 285  
129 Lys Ala Tyr Val Gln Asn Gly Lys Ile Val Val Glu Glu Glu Tyr Ser  
130 290 295 300  
132 Lys Met Glu Val Phe Asn Ala Thr Gly Gln Leu Val Lys Asn Glu Ser  
133 305 310 315 320  
135 Leu Val Pro Gly Val Tyr Val Val Arg Ile Thr Ala Asn Gly Val Met  
136 325 330 335  
138 His Phe Leu Lys Val Leu Val Pro  
139 340

**VERIFICATION SUMMARY**

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